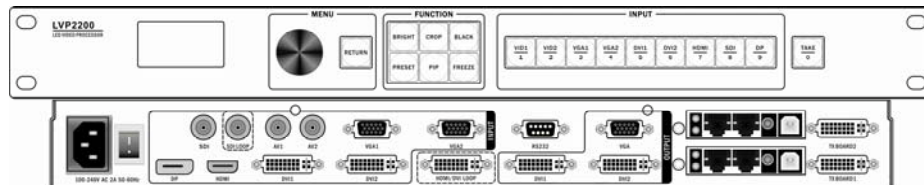


# User Manual



**LVP2200**

**LED Video Processor**

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# Representation

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The manual must not be copied, reproduced or transcribed or translated in whole or part, or disclosed commercially in any means (electronic, mechanical, photocopying, recording or otherwise) or used for any commercial profit without prior written consent of our company.

Please read this manual carefully before use. Any product specification and information in the manual are only for reference and subject to improvement without further notice. Unless otherwise specified, the manual herein is acted as directions to use only and all statements, information and the like do not constitute the warranty of any kind.

# Trademarks

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Both VGA and XGA are registered trademarks of IBM Company.

VESA is the trademark of Video Electronics Standards Association.

HDMI and High-Definition Multimedia Interface are the trademarks of HDMI Licensing LLC.

# Safety Precautions








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- The equipment must be connected with ground wires.
- Voltage with rated power shall be employed by the equipment and the input voltage error shall be  $\pm 10\%$ .
- Do not connect AC power cord with another AC power cord that may cause excessive noise.
- Do not use the equipment in the environment where the temperature is  $-10^{\circ}\text{C}$  to  $45^{\circ}\text{C}$  and the relative humidity is 90% or below.
- Do not use the equipment in the special environment, such as near heat source where the equipment may be overheated to damage. Please use the equipment at the well-ventilated place and keep the air vent smooth.
- Do not expose the equipment at the place where the equipment may be collided accidentally or vibrated and reinforce the equipment in case of the vibration.
- Do not put such foreign objects as water and metal objects into the equipment. Otherwise, the equipment is damaged to cause a fire.
- In case of any irregular or exceptional phenomenon, cut off the power supply instantly, disconnect the AC power cord and remove troubles in time as per "Troubleshooting".
- Do not dismantle the equipment by yourself in case of any damage and contact the designated maintenance center for repair.

# Accessories

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Table 4.1 Packing List

Items	Name	Quantity
	LVP2200	1
	Power cord	1
	DVI cord	1
	BNC-RCA convertor	1
	BNC-RCA terminal	1
	User manual	1
	Certificate of conformity	1

	Warranty card	1
	M3*6 round head screws	2
	Φ5*18 copper pillars	2

**\*Above accessories may differ upon service condition of the user.**

# Model Descriptions

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Table 5.1 Model Descriptions

Models	Descriptions
<b>LVP2200</b>	Basic model
<b>LVP2200S</b>	One 3G-SDI extended input; one 3G-SDI loop output



# Overview

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LVP2200 series is a high-performance LED video processor, which adopts 30-bit digital image processing, advanced deinterlacing signal processing and truly seamless switching technology for professional demonstration environment. It can support 1080p and 1920\*1200@60Hz full high-definition outputs (up to 2304\*1152@60Hz), adjust pixels in a point-to-point manner and receive a variety of video input formats such as 3G-SDI, HDMI, DVI, DP, VGA and standard definition video, etc.

## Splicing LED Video Processor

LVP2200 series video processor supports signal interconnection and can meet super-resolution display requirements through simple splicing settings; and there is no need to purchase the expensive splicing controller.

## Professional Switching Special Effect

Seamless fast switching or fade-in fade-out switching effect with single window or two windows is provided to reinforce and present professional-quality demonstration images.

## User-defined Input and Output Resolutions

DVI and DP signal input resolutions, and all signal output resolutions can be defined by the user.

## PIP of Any Size at Any Position

The position, size, blender, color and others of the PIP (picture in picture) can be regulated.

### Broadcast-level Image Scaling Engine

The LVP2200 series video processor, with the adoption of a high-performance 30-bit Faroudja® DCDI image scaling engine, can convert image resolutions for the signals with different resolutions downward or upward; at the meantime, a professional ACC and ACM image processing engine is installed to present brand-new visions for you.

### Input Signal

Two composite video inputs, two VGA inputs, two DVI inputs, one HDMI input, one DP input and one 3G-SDI input (optional).

### Output Signal

Two DVI outputs, one VGA output, one HDMI/DVI loop output and one 3G-SDI loop output (optional).

### Front Panel Used Conveniently

Visualized LCD display interface, rotary knob used conveniently for control and clear key lights make the installation and control of the system simplified.

### Function Keys

Use shortcut keys to enter brightness and preset menus and trigger crop, PIP, black screen and screen freeze with one key.

# Panels

## Front Panel

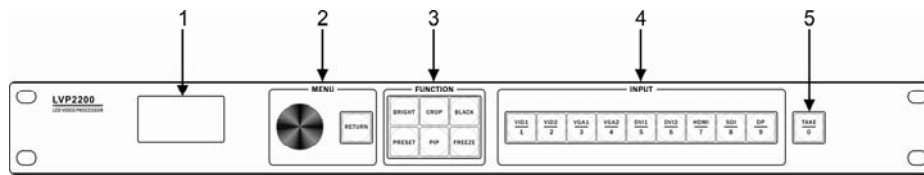


Fig.7.1 Panel

Table 7.1 Descriptions on Front Panel

Serial No.	Name	Operating instructions
1	LCD display screen	Display menus and current information.
2	Knob	Select up, down, left and right menus or adjust the parameters; press to be an enter key slightly
	RETURN	Return key
3	BRIGHT	Image brightness adjustment shortcut key
	CROP	Crop switch shortcut key
	BLACK	Black screen shortcut key for output channel
	PRESET	Load preset shortcut key
	PIP	PIP switch shortcut key
	FREEZE	Window freeze or unfreeze
4	VID1	Composite video 1 source selection key, numeric key 1
	VID2	Composite video 2 source selection key, numeric key 2
	VGA1	VGA1 source selection key, numeric key 3
	VGA2	VGA2 source selection key, numeric key 4
	DVI1	DVI1 source selection key, numeric key 5
	DVI2	DVI2 source selection key, numeric key 6
	HDMI	HDMI source selection key, numeric key 7
	SDI	SDI source selection key, numeric key 8
	DP	DP source selection key, numeric key 9

5	TAKE	Fade-in fade-out and seamless switching shortcut key, numeric key 0
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## Rear Panel

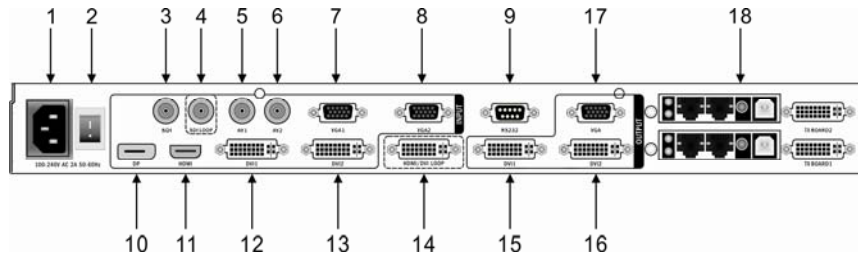


Fig. 7.2 Descriptions on Rear Panel

Table 7.2 Descriptions on Rear Panel

Serial No.	Name	Definition	Descriptions/Supports
1	AC Socket	Input	Applied to 100V-240V AC 50/60Hz power supply
2	Power Switch		“I”-On, “O”-Off
*3	SDI	Output	1080p 60/50/30/25/24/25(PsF)/24(PsF) 720p 60/50/25/24
*4	SDI LOOP	Loop output	1080i 1035i 625/525 line (optional)
5	VID1	Input	PAL, NTSC, PAL-M/N, SECAM
6	VID2	Input	
7	VGA1	Input	VESA standard, PC to 1920*1200
8	VGA2	Input	
9	RS232	Input	Control and update the processor via RS232 serial port communication.
10	DP	Input	VESA standard, PC to 1920*1200

11	HDMI	Input	480i/p, 576i/p, 720p, 1080i/p, support 8-bit, 10-bit and 12-bit color depth	
12	DVI1	Input	VESA standard, PC to 1920*1200	
13	DVI2	Input		
14	HDMI/DVI LOOP	Output	Loop out HDMI, DVI1 and DVI2 input signals, of which the format is consistent to that of the HDMI and DVI.	
15	DVI1	Output	1024*768@60Hz	1024*1280@60Hz
16	DVI2		1280*720@50Hz	1280*1024@60Hz
			1440*900@60Hz	1024*1920@60Hz
			1536*1536@60Hz	1600*1200@60Hz
17	VGA		1280*720@60Hz	1920*1080@50Hz
		1920*1080@60Hz	1920*1200@60Hz	
		1680*1050@60Hz	2560*960@60Hz	
		2048*640@60Hz	2304*1152@60Hz	
		2048*1152@60H	Self-defined	
18	LED sending card position		Position with the LED sending card installed	
Notes: 1. All items with * mark are optional.				
2. All technical parameters are subject to change without further notice.				

# Menus

## Default Menu Overview

LVP2200 owns a menu system to use conveniently. Fig. 8.1 is the menu after the LVP2200 is powered on and the signal is connected. The user can obtain the current input signal source and output signal, as well as other important information via the menu, as shown in table 8.1.

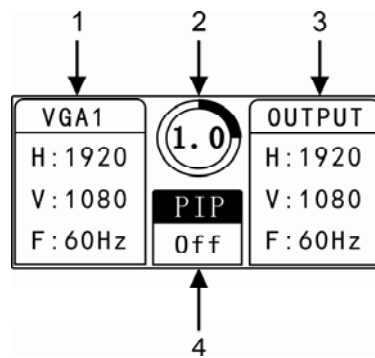


Fig. 8.1 Default Menu

Table 8.1 Menu Descriptions

Serial No.	Descriptions
1	Input channel: VGA1; Input resolution: 1920*1080@60Hz
2	Inter-channel switch time (s)
3	Resolution for output channel: 1920*1080@60Hz
4	PIP on-off state: "Off" – PIP closed; "On" – PIP opened

Press the knob, then the LVP2200 enters a main menu state and the LCD screen pops out a main menu as shown in the Fig. 8.2 below. The user can press the knob to confirm and rotate it left or right to select and adjust each item.

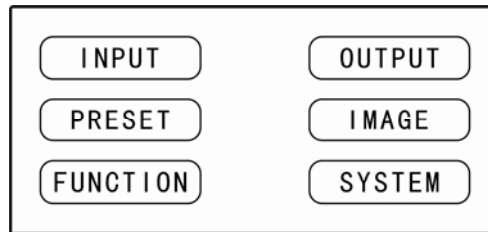


Fig. 8.2 Main Menu

## Descriptions on Main Menu

### Input Menu

At the main menu, rotate the knob, select "input" and press the knob to pop out the menu as shown in the right of the Fig. 8.3. Here, we will introduce the five sub-menus of the input.

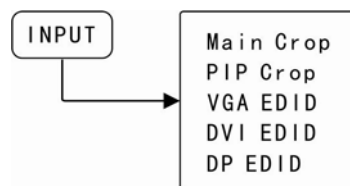


Fig. 8.3 Input Menu

### ① Main Image Crop

Width	100% 720
Height	100% 240
H Start	0
V Start	0
Crop Switch	off
Reset	→

- Horizontal Width——Default: 720; Range: 0-720
- Vertical Height——Default: 240; Range: 0-240
- H Start——Default: 0; Range: 0-2048
- V Start——Default: 0; Range: 0-2048
- Crop Switch——Default: Off; turn on the crop switch when modifying above parameters
- Reset——Initialize above main layer crop parameters under the current channel



## ②PIP Crop

Width	100% 720
Height	100% 240
H Start	0
V Start	0
Crop Switch	off
Reset	→

- Horizontal Width——Default: 720; Range: 0-720
- Vertical Height——Default: 240; Range: 0-240
- H Start——Default: 0; Range: 0-2048
- V Start——Default: 0; Range: 0-2048
- Crop Switch——Default: Off; turn on the crop switch when modifying above parameters
- Reset——Initialize above PIP layer crop parameters under the current channel

## ③VGA EDID

- Press the knob to enter the sub-menus of VGA EDID where 11 fixed EDID are optional

## ④DVI EDID

- Press the knob to enter the sub-menus of DVI EDID where 11 fixed EDID and self-defined EDID are optional

## ⑤DP EDID

- Press the knob to enter the sub-menus of DP EDID where 11 fixed EDID and self-defined EDID are optional

## Output Menu

### ① Output Resolution

- Press the knob to enter the sub-menus of the output resolutions where 17 fixed output resolutions and self-defined output resolutions are optional

### ② LED Panel Settings

Panel Width	1920
Panel Hight	1080
H Start	0
V Start	0
Reset	→

- Panel Width——Default: 1920; Range: 0-Horizontal resolution value
- Panel Height——Default: 1080; Range: 0-Vertical resolution value
- H Start——Default: 0; Range: 0-(Horizontal resolution value– Panel width)
- V Start——Default: 0; Range: 0-(Vertical resolution value – Panel height)
- Reset——Initialize above LED panel settings of the current channel

### ③ PIP Window Settings

WIN Width	950
WIN Hight	540
H Start	0
V Start	0
Reset	→

- WIN Width——Default: 950; Range: 0 ~ (Output resolution width)
- WIN Height——Default: 540; Range: 0-(Output resolution height)
- H Start——Default: 0; Range: 0-( Output resolution width – Window width)
- V Start——Default: 0; Range: 0-( Output resolution height - Window height)
- Reset——Initialize above PIP window settings of the current channel

### ④ Equal Splicing Pattern

Pattern	Equal
H Units	1
V Units	1
Position	1
Reset	→

- Pattern——Equal, it means both the horizontal width and the vertical height are the same
- H Units——Default: 1; Range: 1-10
- V Units——Default: 1; Range: 1-10
- Position——Default: 1; Range: 1-100
- Reset——Initialize above parameters of the current channel at the equal splicing pattern

## ⑤ Unequal Splicing Pattern

Pattern	Unequal
Total Width	1920
Total Hight	1080
H Start	0
V Start	0
Reset	→

- Pattern——Unequal, it means the horizontal width is different from the vertical height
- Total Width——Default: 1920; Range: 0-(Output resolution width\*10)
- Total Height——Default: 1080; Range: 0-(Output resolution height\*10)
- H Start——Default: 0; Range: 0-[( Output resolution width\*10)-Total width]
- V Start——Default: 0; Range: 0-[( Output resolution height\*10)-Total height]
- Reset——Initialize above parameters of the current channel at the unequal splicing pattern

## Preset Menu

Save Mode	→
Load Mode	→
Erase Mode	→

- Save Mode——Save all attributes of the channel so that the user can load them conveniently
- Load Mode——Load all attributes of the channel saved before, reducing the operation steps of the user
- Erase Mode——Erase all attributes of the channel saved before

## Image Menu

Layer	Main
Brightness	50
Contrast	50
Color	50
Sharpness	12
Color TEMP	Normal
Reset	→

- Layer—— Default: Main channel; Option: PIP channel
- Brightness——Default: 50; Range: 0-100
- Contrast——Default: 50; Range: 0-100
- Color——Default: 50; Range: 0-100
- Sharpness——Default: 12; Range: 0-24
- Color TEMP——Default: normal color; Options: warm color and self-defined color
- Reset——Initialize above parameters at the image menu of the current channel

## Function Menu

### ①PIP Settings

PIP	Off
Input	VID1
Mode	PIP
Setting	→
Blender	0

- PIP——Default: Off; the PIP shall be turned on when the parameters below are adjusted; the PIP also can be turned on by the key "PIP"; when the PIP is on, the splicing mode should be turned off
- Input——Default: VID1; to choose the channel, a list of PIP source conflicts shall be known necessarily; see details in table 10.1 (PIP mode setting list)
- Mode——Default: PIP; Option: keying mode
- Setting——Select the color of the color key
- Blender——Default: 0; Range: 0-15

## ②DVI Settings

Output1 EQ	0
Output2 EQ	0
Input EQ	On
RGB Range	Auto

- Output1 EQ——Default: 0; Range: 0-47; Adjust gains of the output port DVI1 correspondingly
- Output2 EQ——Default: 0; Range: 0-47; Adjust gains of the output port DVI2 correspondingly
- Input EQ——Default: Off; Option: On
- RGB Range——Default: Auto mode; Option: Common mode and compression mode

### ③VGA Settings

Auto Adjust	→
H Position	0
V Position	0
H Clock	0
Clock Phase	0

- Auto Adjust——Tap the knob to correct phase of the currently input VGA signal
- H Position——Default: 0; Range: 0-100
- V Position——Default: 0; Range: 0-37
- H Clock——Default: 2210; Range: 0-Horizontal total width
- Clock Phase——Default: 0; Range: 0-63

### ④Test Menu

- The test menu shall be turned off in the default state; there are color bars, multiwaves, squares, gray scales, pure color and others for options if the menu is turned on; after the test menu is turned on, the keys selected by the channel of the front panel are inactive; when the channel is selected necessarily, the test menu shall be turned off.

## System Menu

### ①Language

- Default: Chinese; Option: English

### ②System Information

- By pressing the knob, the versions of the equipment software and hardware can be known

### ③Image Quality Optimization

Contrast PT	Normal
ACM Manage	Off
Motion Mod	Normal
BLK Extend	Off
DNR	Off
MPEG NR	Off
Film Mode	On
AV Enhance	Off
Reset	→

- Contrast PT——Default: Normal; Options: Weak or dynamic
- ACM Manage——Default: Off; Option: On
- Motion Mode——Default: Off; Option: Auto
- BLK Extend: Default: Off; Options: Weak, moderate and strong
- DNR——Default: Off; Options: Weak, moderate and strong
- MPEG NR——Default: Off; Options: Weak and strong
- Film Mode——Default: On; Option: Off
- AV Enhance——Default: Off; Option: On
- Reset——Initialize above image quality optimization parameters at the current channel

### ④ Gamma

Default: Off; Range: -2.5-2.8

### ⑤Machine Reset

Initialize all parameters of the machine



# Function Descriptions

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The user shall know the main functions to configure the machine rapidly, thereby completing the engineering installation and commissioning. Before setting each function, please check whether the machine is connected correctly and the signal is input normally.

## Output Resolution Settings

After installing the equipment correctly, the user shall set the output resolution of the video processor according to the resolution of the LED panel. Press the knob to enter the main menu, select "output"→ "output resolution" →"resolution", choose a suitable resolution and tap the knob.

## Splicing Function

The problem that the single video processor cannot drive the oversized LED panel can be solved by the splicing function. And such free splicing pattern can be applied to various LED splicing systems.

## Signal Connection

Only one input signal splicing mode is used for the splicing function. That is to say, the same channel can only output the same signal source (available signal loop connection or signal distribution input) to the LED panel after the signal source is processed by the video processor. Take DVI input splicing for example and the connection mode is as shown in Fig. 10.1.

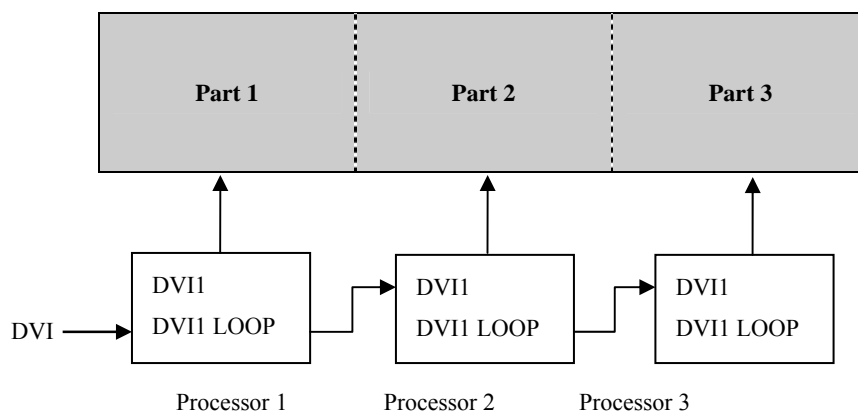


Fig.10.1 Schematic Diagram of Splicing

## Splicing Function Settings

After connecting the equipment correctly, set corresponding output resolution and splicing mode according to physical resolution of the LED panel. To set the output resolution, select "output" → "output resolution" → "resolution".

LVP2200 splicing includes equal splicing and unequal splicing, in which the equal splicing refers to the horizontal pixels and the vertical pixels of each part of the video wall are equal, while the unequal splicing refers to the pixels are unequal.

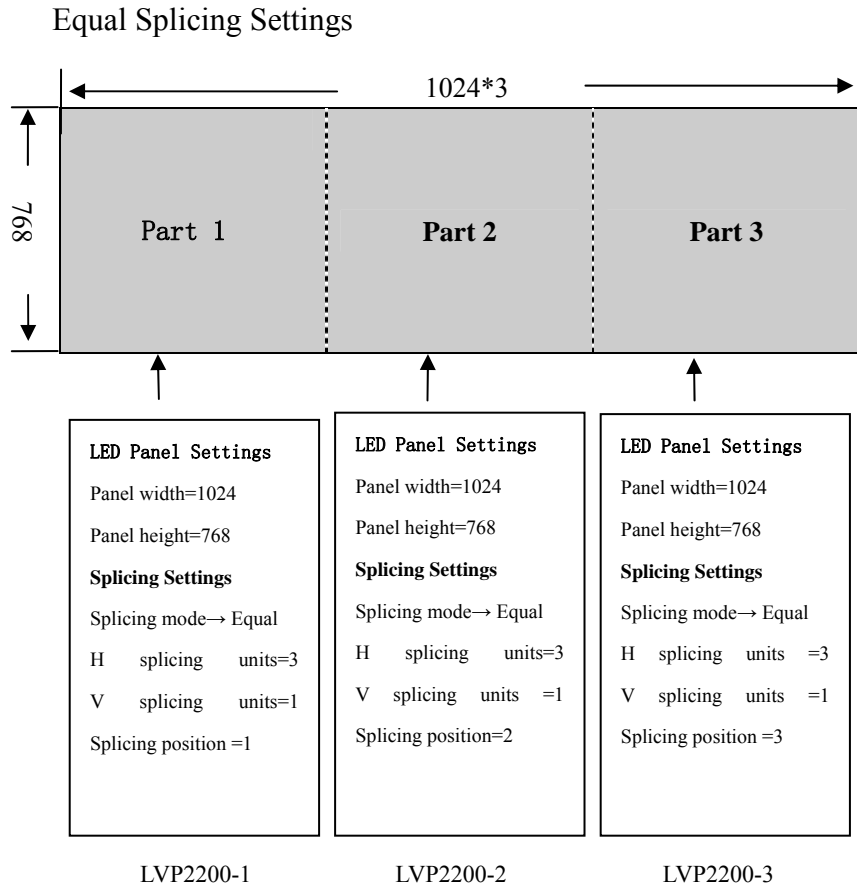


Fig. 10.2 Equal Splicing

As shown in the Fig. 10.2, the equal splicing settings are as follows: Select "output" menu in the main menu → Change "panel width" in "LED settings" menu into 1024 and "panel height" into 768. Change "splicing mode" in the "splicing settings" menu into equal, "horizontal splicing" into 3 and "vertical splicing" into 1. And increase the "splicing position" from left to right progressively.

## Unequal Splicing Settings

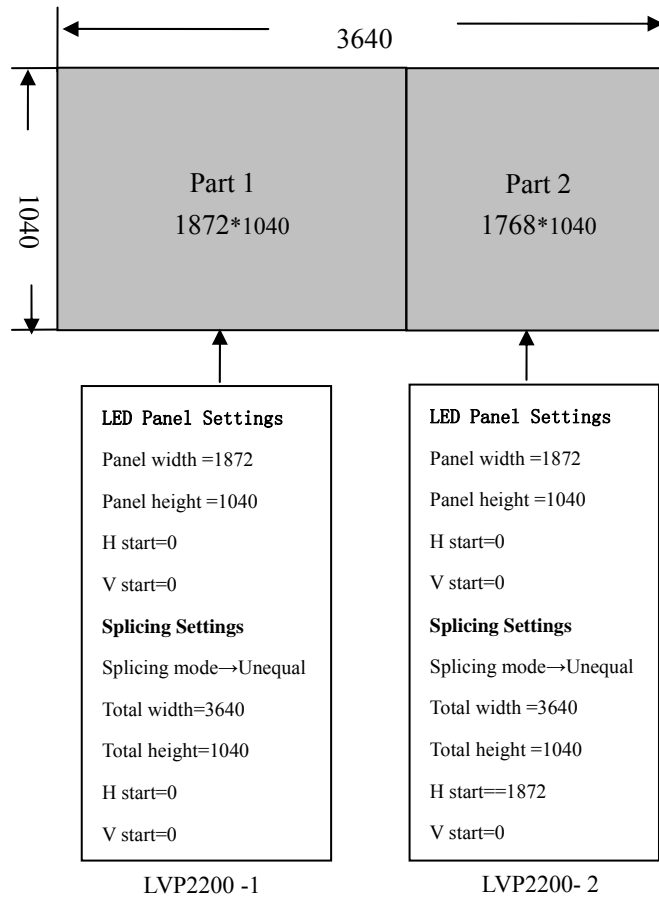


Fig.10.3 Unequal Splicing

As shown in the Fig. 10.3, the unequal splicing settings are as follows: Select "output" menu in the main menu → Change "panel width" of the LVP2200-1 in "LED settings" menu into 1872, "panel height" into 1040 and "H/V start" into 0. Change "splicing mode" in the "splicing settings" menu into unequal, "total width" into 3640, "total height" into 1040" and "H/V start" into 0. Change "panel width" of the LVP2200-2 into 1768, "panel height" into 1040, "H start" into 1872 and "V start" into 0. Change "splicing mode" into unequal, "total width" into 3640, "total height" into 1040", "H start" into 1872 and "V start" into 0.

## PIP Mode Settings

PIP mode means the picture in picture, through which two programs can be displayed on the same screen in digital techniques. That is to say, one or more compressed sub-pictures are inserted into the normally watched main picture so that you can monitor other channels conveniently while appreciating the main picture. At the PIP mode, the user shall provide two paths of signal input at least and set the PIP menu correspondingly. Before using the PIP function, the user shall know the list of signal input conflicts.

Table 10.1 List of LVP2200 Signal Input Conflicts

Main										
		VID1	VID2	VGA1	VGA2	DVI1	DVI2	HDMI	SDI	DP
P I P	VID1		×	✓	✓	✓	✓	✓	✓	✓
	VID2	×		✓	✓	✓	✓	✓	✓	✓
	VGA1	✓	✓		×	✓	✓	✓	✓	✓
	VGA2	✓	✓	×		✓	✓	✓	✓	✓
	DVI1	✓	✓	✓	✓		×	×	✓	✓
	DVI2	✓	✓	✓	✓	×		×	✓	✓
	HDMI	✓	✓	✓	✓	×	×		✓	✓
	SDI	✓	✓	✓	✓	✓	✓	✓		✓
	DP	✓	✓	✓	✓	✓	✓	✓	✓	

# PIP Parameter Settings

Open the PIP mode (that is, PIP key light is on) to enter "function → PIP settings" menu, choose "on" for the PIP (or press PIP key directly on the front panel) or DVI for the signal source, change "Window width" in the "output → PIP window settings" menu into 480, "window height" into 320, "H start" into 364 and "V start" into 250, as shown in Fig. 10.3.

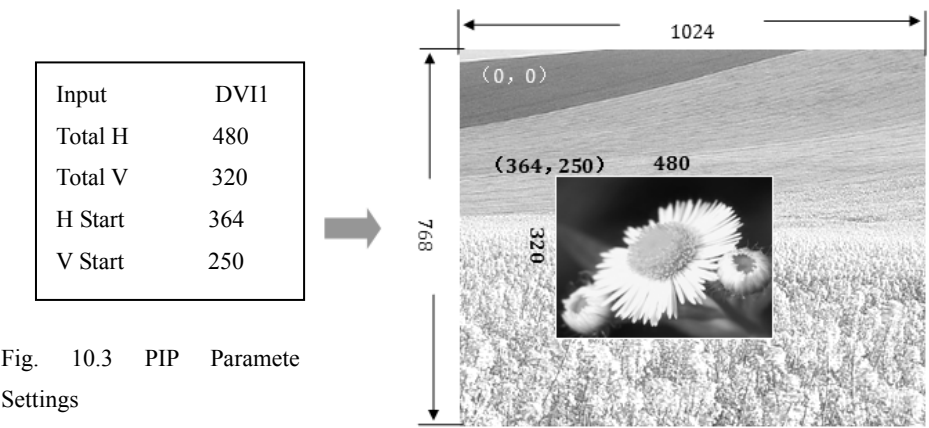


Fig. 10.3 PIP Paramete  
Settings

## Keying Mode

Keying is an extension of the PIP function and is realized by reducing the designated color from the image color input by the PIP channel. The image matting function can be applied to some simple special effect processing and caption adding.

### Caption Add

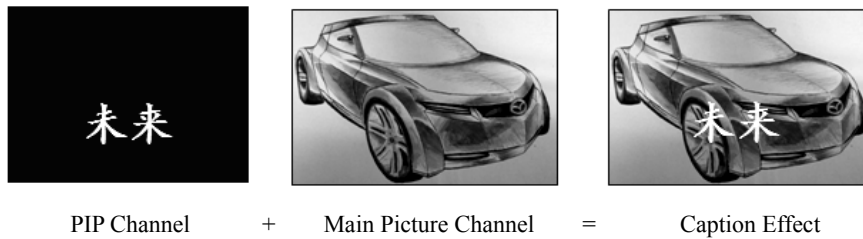


Fig.10.4 Caption Adding

### Parameter Settings

Select "function" in the main menu → Choose "on" in the "PIP settings" menu and "keying" in the "mode". And choose black for "color key" in the "settings" menu.

As seen in the Fig. 10.4, the image of white characters on black background is input to the PIP channel; when the two pictures are overlapped, we can get the caption effect by removing the black.

## Preset Settings

The preset mode is convenient for the user to load out various common application scenarios in use, thereby alleviating the repeated troublesome settings for the user in operation and improving the working efficiency. Every preset mode shall involve in input channel, image quality, image, crop, window and PIP associated parameters. Hereinafter, the operations on save, erase and load of the preset mode will be set forth.

### Save Preset

Set the current channel parameters and tap the knob to enter the main menu. Select "preset → save preset" and press numeric keys 0-9 to save the corresponding preset. The saved numeric box turns into solid, as shown by the number 1 in the Fig. 10.5.

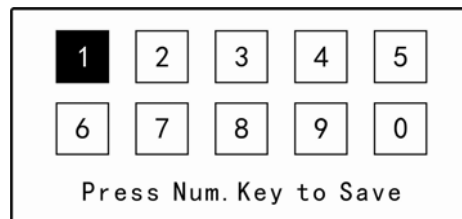


Fig. 10.5 Save Preset



## Erase Preset

Press the knob to enter the main menu. Select "preset → erase preset" and press numeric keys 0-9 to erase the corresponding preset saved before. The saved numeric box turns into hollow from solid, as shown by the number 2 in the Fig. 10.6.

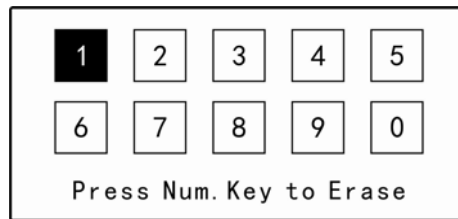


Fig. 10.6 Erase Preset

## Load Preset

Tap the knob to enter the main menu, select "preset → preset load" and press the numeric keys 0-9 to load the corresponding preset saved before, or press "PRESET" shortcut key in "FUNCTION" area of the front panel and press the corresponding numeric key to load the preset template, as shown in Fig. 10.7.

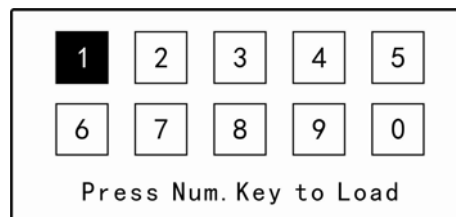


Fig. 10.7 Load Preset

Seamless Switching/Fade-in Fade-out Settings

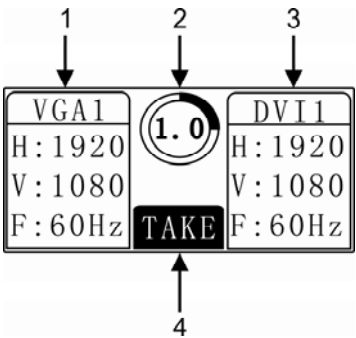


Fig.10.8 Switching Menu

Table 10.2 Descriptions on Switching Menu

Serial No.	Descriptions
1	Channels and resolutions to be switched
2	Time for switching the special effect: seamless switching (0.0); fade-in fade-out (0.1-5.0)
3	Output channels and resolutions at the switching state
4	Machine being in switching state

As shown in Fig. 10.8, the value in circle of the default menu is the fade-in fade-out switching time. Rotate the knob left and right at the default menu to adjust the fade-in fade-out switching time. The more is the switching time, the longer fade-in fade-out effect we obtain. When the switching time is zero, the menu is in the seamless switching state.

Adjust the required switching time and press **TAKE** key on the panel to realize the switching. As seen in Fig. 10.8, DVI1 is the channel switched out and can be output; VGA1 is the channel and the resolution to be switched out. At the switching state, the user shall know the list of source input conflicts.

Table 10.3 List of LVP2200 Source Input Conflicts

Main Channel										
		VID1	VID2	VGA1	VGA2	DVI1	DVI2	HDMI	SDI	DP
PIP Channel	VID1	✓	×	✓	✓	✓	✓	✓	✓	✓
	VID2	×	✓	✓	✓	✓	✓	✓	✓	✓
	VGA1	✓	✓	✓	×	✓	✓	✓	✓	✓
	VGA2	✓	✓	×	✓	✓	✓	✓	✓	✓
	DVI1	✓	✓	✓	✓	✓	×	×	✓	✓
	DVI2	✓	✓	✓	✓	×	✓	×	✓	✓
	HDMI	✓	✓	✓	✓	×	×	✓	✓	✓
	SDI	✓	✓	✓	✓	✓	✓	✓	✓	✓
	DP	✓	✓	✓	✓	✓	✓	✓	✓	✓

# Specifications

Port	Quantity	Specifications		
Video input				
VID	2	PAL, NTSC, PAL-M/N, SECAM		
VGA	2	VESA standard, PC to 1920*1200		
DVI	2	VESA standard, PC to 1920*1200		
HDMI	1	480i/p, 576i/p, 720p, 1080i/p, 8, 10, 12-bit in color depth		
DP	1	VESA standard, PC to 1920*1200		
SDI (Optional)	1	1080p 60/50/30/25/24/25(PsF)/24(PsF)		720p 60/50/25/24
		1080i 1035i		625/525 line
Video output				
DVI	2	1024*768/60Hz	1536*1536/60Hz	1680*1050/60Hz
VGA	1	1024*1280/60Hz	1600*1200/60Hz	2560*960/60Hz
		1280*720/50Hz	1280*720/60Hz	2048*640/60Hz
		1280*1024/60Hz	1920*1080/50Hz	2304*1152/60Hz
		1440*900/60Hz	1920*1080/60Hz	2048*1152/60Hz
		1024*1920/60Hz	1920*1200/60Hz	Self-defined
Video loop output				
HDMI/DVI	1	480i/p, 576i/p, 720p, 1080i/p, 8, 10, 12-bit in color depth VESA standard, PC to 1920*1200		
SDI	1	1080p 60/50/30/25/24/25(PsF)/24(PsF)		720p 60/50/25/24
		1080i 1035i		625/525 line
Equipment parameters				
Weight	3.5Kg			
Dimension	4.8cm (height)*44cm (width)*28.5cm (depth)			
Input power	100V-240V AC 50/60Hz			
Maximum power	20W			
Working temperature	0°C-45°C			

# Troubleshooting

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Problems may be encountered during installation or use. Here, the user can follow the steps below to remove the troubles; if the steps below still cannot fix the problems for you, please contact the local dealer.

**1. The equipment has no image and the indicator light doesn't work.**

Check whether the power supply is connected well and the power switch is turned on.

**2. LCD screen on the key panel has data displayed, but no image output.**

Check whether the signal is connected correctly.

Check whether the equipment supports the resolution and refresh the frequency.

Reset the equipment to factory default settings.

**3. VGA picture cannot be displayed on the full screen or is deflected.**

Check whether VGA wire is up to standard or overlong.

Open the menu: Main menu→Function→VGA settings→Automatic correction; and hit VGA automatic adjustment.

**4. HDMI/DVI output picture cannot be displayed on the full screen.**

Reset output resolution of the equipment.

Check whether output resolution of PC or notebook is identical to the resolution received by the splicer.

Check whether desktop wallpaper is too small.



**Industry Sales and Service Hotline: 400-6286-959**

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**SHENZHEN SPEEDLEADER TECHNOLOGY CO., LTD.**

Tel.: 0755-26588939      Fax: 0755-26586619      Postal code: 518052

Address: 6F, Building 78, Majialong Industrial Zone, Nanshan District, Shenzhen

<http://www.speedleader.cn>      E-mail: [sales-led@speedleader.cn](mailto:sales-led@speedleader.cn)